# Fisheries Production Statistics Of British Columbia

# 1983

**Province of British Columbia**
Ministry of Environment
**Fisheries Branch**

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# FISHERIES PRODUCTION STATISTICS

# OF BRITISH COLUMBIA

# 1983

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Ministry of Environment
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# FOREWORD

The 1983 issue of the Fisheries Production Statistics of British Columbia is the third to be published by the Province of British Columbia, Ministry of Environment. Prior to the 1981 edition, this report was published by the Department of Fisheries and Oceans dating back to 1951.

This report is a summary of fish production reported in the 1983 census of fish processing plants licenced in British Columbia. The format is similar to previous years in which the majority of the text and tables document data pertaining to fish landings and production. In addition, information relating to licencing within the fishing and fish processing sectors is also reported. This year three new tables have been included. They document the wholesale and net selling values of canned salmon production by species, historical salmon mariculture production, and the number of licences issued by the Department of Fisheries and Oceans for unlimited entry special fisheries.

It should be noted that all data on fish landings has been provided by the Department of Fisheries and Oceans in preliminary form and is subject to major revision.

All quantity data are presented in tonnes except where otherwise indicated, and values are shown in thousands of dollars. One tonne is equivalent to 2,204.6 pounds or 1,000 kilograms.

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September, 1984

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## I. SUMMARY OF THE BRITISH COLUMBIA FISHING INDUSTRY -1983

The quantity of British Columbia fish landings increased by 20 percent from 155,738 tonnes recorded for 1982, to 186,364 tonnes in 1983[1]. The corresponding landed value however, dropped by 15 percent from $241.2 million in 1982 to $204.4 million in 1983. These occurrences can be attributed primarily to the larger harvest of lower valued pink salmon in 1983 compared to the higher valued sockeye catch in 1982. Total salmon landings rose by 13 percent over the 1982 tally while the landed value fell by 35 percent. The combined herring fisheries displayed significant increases in both landings and landed value while the shellfish total showed a similar, but smaller, increase. Halibut landings, for the third consecutive year, were virtually unchanged but the landed value showed a modest increase. Total groundfish landings rose by 17 percent over last year and the landed value increased by 7 percent.

The fish processing industry in British Columbia recorded a total wholesale value for all species of $471.8 million in 1983, an increase of only 1 percent over the previous year. While virtually all the major species groups showed an increase in wholesale value over 1982, it was offset by salmon which recorded a 10 percent drop. The lower salmon value was again mainly due to a significant change in the species mix of the salmon harvests; 1982 was a high cycle year for sockeye whereas 1983 was a low cycle year for most species of salmon except pinks. The wholesale value of halibut production rose by 42 percent in 1983 while that of herring, groundfish and shellfish increased by 28 percent, 16 percent and 7 percent respectively.

The regional distribution of the value of fisheries products processed in British Columbia remained very similar to last year with approximately 64 percent originating in the lower mainland region.

A total of 15,439 personal commercial fishing licences were issued by the Department of Fisheries and Oceans in 1983, including 749 5 year licences and 14,690 traditional 1 year licences. This compares with the 1982 total of 17,298 licences, which consisted of 1,873 5 year licences and 15,425 1 year licences. Excluding packers and collectors a total of 6,931 vessels were licenced to fish commercially in British Columbia.

One hundred and seventy two companies operating out of 151 plants, reported processed fish production in 1983[2]. The Marine Resources Branch issued 213 fish processing licences, 500 fish buying licences, 133 oyster picking permits and 21 marine plant harvesting licences. In its second year since introduction, a total of 347 fishermen's vending licences were issued.

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1 The 1982 landings data reported in last year's edition of this report have been revised.

2 In 1983 a number of companies utilizing cold storage facilities and custom processors, along with companies delivering round fish as a final product, were included as separate entities.

TABLE 1 - QUANTITY AND VALUE OF B.C. FISH LANDINGS BY SPECIES - 1983 [1]

| | QUANTITY LANDED (METRIC TONS) | LANDED VALUE ($'000) | WHOLESALE VALUE ($'000) |
|---|---|---|---|
| SALMON[2] | 70,943 | 106,997 | 284,289 |
| HERRING[3] | 39,987 | 53,032 | 111,050 |
| HALIBUT[4] | 2,398 | 8,304 | 11,194 |
| GROUNDFISH | | | |
| DOGFISH[5] | 3,071 | 698 | 836 |
| FLOUNDER | 64 | 22 | 58 |
| HAKE[6] | 30,726 | 4,980 | 5,033 |
| LINGCOD | 3,730 | 2,120 | 3,814 |
| GREY COD[7] | 4,551 | 2,102 | 7,452 |
| PACIFIC OCEAN PERCH | 5,791 | 2,223 | 6,964 |
| POLLOCK | 888 | 207 | 2,372 |
| ROCKFISH[8] | 6,037 | 2,777 | 4,864 |
| SABLEFISH[7] | 4,414 | 6,520 | 7,447 |
| SKATE | 342 | 45 | 163 |
| SOLE | 2,724 | 1,673 | 4,093 |
| TURBOT | 315 | 67 | 1,124 |
| OTHER GROUNDFISH | 396[9] | 5[9] | 2,572[10] |
| SUB TOTAL | 63,049 | 23,439 | 46,792 |
| SHELLFISH | | | |
| ABALONE | 56 | 462 | 590 |
| CLAMS[11] | 1,699 | 1,648 | 2,686 |
| CRABS | 839 | 2,866 | 3,941 |
| GEODUCKS | 2,717 | 1,872 | 4,202 |
| OCTOPUS | 30 | 63 | 97 |
| OYSTERS | 2,453 | 1,554 | 1,599 |
| SHRIMP & PRAWNS | 731 | 3,211 | 3,578 |
| OTHER SHELLFISH | 1,165[12] | 390[12] | 1,158[13] |
| SUB TOTAL | 9,690 | 12,066 | 17,851 |
| OTHER SPECIES | | | |
| STURGEON | 3 | 4 | 10 |
| TUNA[14] | 229 | 446 | 549 |
| OTHER | 65[15] | 79[15] | 33[16] |
| SUBTOTAL | 297 | 529 | 592 |
| TOTAL | 186,364 | 204,367 | 471,768 |

## TABLE 1 - CONT'D - FOOTNOTES

[1] Landings statistics are provided by the Department of Fisheries and Oceans in preliminary form and are subject to major revision.
[2] Includes salmon roe.
[3] Includes herring spawn on kelp.
[4] Includes landings at United States ports of 533 tonnes valued at $1,926,000.
[5] Estimated from catch statistics, production data and United States import data.
[6] Includes 27,656 tonnes of hake valued at $4,633,000 delivered over-the-side to foreign vessels in co-operative fishing arrangements.
[7] Reported in round weight. Sablefish total based on sales slips and logbooks. A small quantity of charter fish is included.
[8] Includes red and rock bass, reedi, greenies, other rockfish, red snapper and silver perch.
[9] Includes non-food fish.
[10] Includes other groundfish, portions, sticks and specialities, fish meal n.e.s, fish oil n.e.s., and solubles n.e.s.
[11] Includes horse clams.
[12] Includes scallops, sea urchins, squid, mussels, crayfish, snails and sea cucumbers.
[13] Includes sea urchins, squid, scallops, mussels and other shellfish n.e.s.
[14] Based on sales slips and logbooks. Includes approximately 61 tonnes worth $127,000 caught in U.S. or International waters and landed in Canada as well as 69 tonnes caught in U.S. or International waters valued at $119,000 and landed at U.S. ports by Canadian fishermen.
[15] Includes eulachons, idiotfish, mackerel, shad and smelt.
[16] Includes eulachons, smelt and floating kelp.

TABLE 2 - LANDED AND WHOLESALE VALUE OF FISH AND FISH PRODUCTS IN B.C.

1974 - 1983 [1]

| | Excludes halibut and tuna landed by B.C. fishermen at U.S. ports and hake sold to foreign processors | | Includes halibut and tuna landed by B.C. fishermen at U.S. ports and hake sold to foreign processors | | | |
|---|---|---|---|---|---|---|
| YEAR | LANDED VALUE ($'000) | WHOLESALE VALUE ($'000) | LANDED VALUE ($'000) | % CHANGE | WHOLESALE VALUE ($'000) | % CHANGE |
| 1974 | 100,282 | 219,758 | 100,976 | - 23 | 220,452 | - 23 |
| 1975 | 76,611 | 163,948 | 79,681 | - 21 | 167,018 | - 24 |
| 1976 | 138,820 | 294,590 | 141,851 | + 78 | 297,621 | + 78 |
| 1977 | 165,005 | 359,905 | 167,905 | + 18 | 362,556 | + 22 |
| 1978 | 243,731 | 510,667 | 250,805 | + 49 | 517,741 | + 43 |
| 1979 | 330,019 | 563,181 | 332,972 | + 33 | 566,134 | + 9 |
| 1980 | 180,529 | 402,191 | 184,108 | - 45 | 405,770 | - 28 |
| 1981 | 232,358 | 523,754 | 236,156 | + 28 | 526,928 | + 30 |
| 1982 | 235,519 | 461,159 | 241,205 | + 2 | 466,845 | - 11 |
| 1983 | 197,689 | 465,090 | 204,367 | - 15 | 471,768 | + 1 |

[1] Landings statistics for 1983 are provided by the Department of Fisheries and Oceans in a preliminary form and are subject to major revision.

TABLE 3 - DISTRICT CATCH BY SPECIES - 1983[1] (LANDED WEIGHT IN TONNES)

| Species | North Coast | South Coast | Fraser Area | Total | Landed Value ($'000) |
|---|---|---|---|---|---|
| Chinook | 1,596 | 2,916 | 124 | 4,636 | 17,219 |
| Sockeye | 3,614 | 9,034 | 1,360 | 14,008 | 33,920 |
| Coho | 3,514 | 5,483 | 32 | 9,029 | 21,916 |
| Pink | 20,394 | 16,235 | 1,881 | 38,510 | 26,502 |
| Chum | 3,351 | 1,332 | 14 | 4,697 | 7,334 |
| Steelhead | 50 | 7 | * | 57 | 94 |
| Subtotal | 32,519 | 35,007 | 3,411 | 70,937 | 106,985 |
| Salmon Roe | 3 | 3 | * | 6 | 12 |
| TOTAL SALMON | 32,522 | 35,010 | 3,411 | 70,943 | 106,997 |
| Herring | 13,946 | 25,814 | - | 39,760 | 46,577 |
| Herring Spawn on Kelp | 190 | 37 | - | 227 | 6,455 |
| TOTAL HERRING | 14,136 | 25,851 | - | 39,987 | 53,032 |
| Halibut[2] | 1,570 | 295 | - | 1,865 | 6,378 |
| Dogfish[3] | n/a | n/a | n/a | 3,071 | 698 |
| Flounder | 34 | 30 | - | 64 | 22 |
| Hake[4] | - | 3,059 | 11 | 3,070 | 347 |
| Ling Cod | 1,155 | 2,574 | 1 | 3,730 | 2,120 |
| Grey Cod[5] | 2,763 | 1,787 | 1 | 4,551 | 2,102 |
| Pacific Ocean Perch | 4,703 | 1,088 | - | 5,791 | 2,223 |
| Pollock | 849 | 28 | 11 | 888 | 207 |
| Rockfish[6] | 2,782 | 3,251 | 4 | 6,037 | 2,777 |
| Sablefish[5] | 1,984 | 2,305 | 125 | 4,414 | 6,520 |
| Skate | 249 | 93 | * | 342 | 45 |
| Soles | 1,850 | 873 | 1 | 2,724 | 1,673 |
| Turbot | 206 | 109 | - | 315 | 67 |
| Other Groundfish[7] | 207 | 189 | - | 396 | 5 |
| Groundfish Subtotal | 16,782 | 15,386 | 154 | 35,393 | 18,806 |
| Abalone | 46 | 10 | - | 56 | 462 |
| Clams[8] | 27 | 1,672 | * | 1,699 | 1,648 |
| Crabs | 207 | 370 | 262 | 839 | 2,866 |
| Geoducks | 482 | 2,235 | - | 2,717 | 1,872 |
| Octopus | 13 | 17 | * | 30 | 63 |
| Oysters[9] | - | 2,453 | - | 2,453 | 1,554 |
| Shrimp and Prawns | 120 | 379 | 232 | 731 | 3,211 |
| Scallops | - | 6 | - | 6 | 24 |
| Squid | 1 | 14 | * | 15 | 21 |
| Other Shellfish[10] | * | 1,144 | * | 1,144 | 345 |
| Shellfish Subtotal | 896 | 8,300 | 494 | 9,690 | 12,066 |

TABLE 3 - CONT'D

| Species | North Coast | South Coast | Fraser Area | Total | Landed Value ($'000) |
|---|---|---|---|---|---|
| Eulachons | - | - | 11 | 11 | 12 |
| Smelt | - | 1 | 4 | 5 | 10 |
| Sturgeon | * | 1 | 2 | 3 | 4 |
| Tuna[11] | - | 99 | - | 99 | 200 |
| Other[12] | 48 | 1 | - | 49 | 57 |
| Other Subtotal | 48 | 102 | 17 | 167 | 283 |
| TOTAL | 65,954 | 84,944 | 4,076 | 158,045 | 197,562 |

1 Landings statistics are provided by the Department of Fisheries and Oceans in a preliminary form and are subject to major revision.
2 Excludes 533 tonnes of halibut valued at $1,926,000 landed at U.S. ports.
3 Estimated from catch statistics, production data and U.S. import data. Not available by district.
4 Does not include 27,656 tonnes of hake valued at $4,633,000 delivered over-the-side to foreign vessels in co-operative fishing arrangements.
5 Reported in round weight. Sablefish total based on sales slips and logbooks. A small amount of charter fish is included.
6 Includes red and rock bass, reedi, greenies, other rockfish, red snapper, and silver perch.
7 Includes non food fish.
8 Includes horse clams.
9 Data supplied by the Ministry of Environment, Marine Resources Branch.
10 Includes crayfish, mussels, snails, sea urchins and sea cucumbers.
11 Based on D.F.O. catch data. Does not include approximately 61 tonnes worth $127,000 caught in U.S. or International waters and landed in Canada as well as 69 tonnes caught in U.S. or International waters valued at $119,000 and landed at U.S. ports by Canadian fishermen.
12 Includes idiotfish, shad and mackerel.

* Less than 1 tonne reported.

n/a: Not available entries are only included in grand totals but not in the regional subtotals.

TABLE 4 - REGIONAL WHOLESALE VALUE OF B.C. FISHERIES PRODUCTION BY PRODUCT CATEGORY 1982 - 1983[1]

($000)

| PRODUCT CATEGORY | LOWER MAINLAND 1982 | LOWER MAINLAND 1983 | VANCOUVER IS. 1982 | VANCOUVER IS. 1983 | SUNSHINE COAST 1982 | SUNSHINE COAST 1983 | CENTRAL & NORTH COAST 1982 | CENTRAL & NORTH COAST 1983 | TOTAL B.C. 1982 | TOTAL B.C. 1983 |
|---|---|---|---|---|---|---|---|---|---|---|
| Fresh | 24,416 | 26,634 | 5,788 | 7,606 | 337 | 573 | 1,395 | 3,410 | 31,936 | 38,223 |
| Frozen | 106,954 | 61,265 | 33,120 | 22,365 | 420 | 190 | 46,987 | 34,517 | 187,481 | 118,337 |
| Cured | 62,774 | 81,360 | 9,224 | 9,711 | - | 9 | 30,485 | 27,355 | 102,483 | 118,435 |
| Canned | 78,094 | 118,102 | 1,346 | 4,247 | - | - | 47,709 | 53,853 | 127,149 | 176,202 |
| Other | 10,648 | 12,261 | 276 | 142 | - | - | 1,186 | 1,490 | 12,110 | 13,893 |
| GRAND TOTAL | 282,886 | 299,622 | 49,754 | 44,071 | 757 | 772 | 127,762 | 120,625 | 461,159 | 465,090 |

[1] Does not include hake over-the-side sales, and halibut and tuna landed in U.S. ports.

## II. ANALYSIS BY SPECIES

### A) SALMON

Compared to the 1982 harvest of 62,599 tonnes, salmon landings increased by 13 percent to 70,943 tonnes in 1983. The landed value however, decreased from $165.2 million in 1982 to $107 million in 1983. 16.1 percent of the catch was taken with gillnet gear, while seine gear accounted for 58.1 percent and the remaining 25.8 percent was taken on troll gear. Gillnet gear landed large percentages of chum, sockeye and steelhead. Seine gear harvested the majority of pinks along with large amounts of sockeye and chum, while troll gear accounted for almost all of the coho and chinook harvest. Troll gear also accounted for almost 14 percent of the pink landings in 1983.

Despite the increased landings, the wholesale value of all salmon production was only $284.3 million, down 10 percent from the 1982 value of $315.3 million. This occurred, at least in part, because of decreased landings of higher valued species, particularly sockeye, and the large harvest of lower valued pinks. Overall, the wholesale value of salmon production contributed 61 percent to the total wholesale value of the British Columbia fishing industry in 1983, compared to 68 percent in 1982.

Salmon processing concentrates on two major activities, canning and freezing. Canned salmon, in 1983, accounted for 62 percent of the total salmon wholesale value while frozen salmon accounted for an additional 28 percent. In 1982, canned salmon contributed only 40 percent to the total salmon wholesale value while frozen products made up 49 percent. This shift in production from frozen to canned salmon products is largely due to the changes in volumes and species mix during the harvest season. In 1982, a strong year in the sockeye cycle, a significant amount of sockeye was directed toward the frozen market as opposed to the traditional canned market. This occurred in part because large quantities were landed by trollers that year. Also, processors chose to freeze more salmon as a result of depressed canned salmon market conditions. In 1983, however, it was a low cycle year for sockeye and a strong year for pinks, which, though relatively low valued, are traditionally directed to the canned market.

Overall, the 1983 canned salmon pack consisted of 1,480,527 forty-eight pound cases, which next to the 1,800,545 case pack of 1981, was the largest recorded in the last decade. Although it represented an increase of 81 percent over the 1982 pack it was accompanied by only a 39 percent increase in wholesale value. In 1983, pink salmon accounted for 67 percent, sockeye 25 percent, coho 4 percent, chum 3 percent, and others less than 1 percent of the number of cases produced. However, pink salmon contributed only 55 percent to the total canned salmon wholesale value, while sockeye accounted for 38 percent and coho 5 percent.

For the first time in 1983, fish processing companies were asked to report both a final wholesale value and a net selling value for their canned salmon production. Overall, the net selling value was 6 percent less than the total wholesale value of all canned salmon.

Salmonid mariculture production in British Columbia was down by 53 percent, to only 128 tonnes of coho and chinook in 1983. The wholesale value of this production also declined by 38 percent to $708 thousand from $1,136 thousand in 1982. It should be noted that this production is included in the British Columbia totals.

Fresh, mild cured, smoked and other specialty salmon products were also processed, along with salmon roe and salmon by-products. Together these products accounted for 10 percent of the total wholesale value of salmon production.

TABLE 5 - LANDINGS OF SALMON BY SPECIES AND GEAR 1974 - 1983[1]

(Round Weight in Tonnes)

GILLNET GEAR

| | CHINOOK | SOCKEYE | COHO | PINKS | CHUMS | TOTAL | VALUE | NUMBER OF DELIV. | AVERAGE CATCH PER DELIV. | AVERAGE VALUE PER DELIV. |
|---|---|---|---|---|---|---|---|---|---|---|
| | (t) | (t) | (t) | (t) | (t) | (t) | ($'000) | ('000) | (kg) | ($) |
| 1974 | 982 | 11,026 | 1,689 | 2,685 | 7,943 | 24,367 | 26,672 | 89 | 337 | 369 |
| 1975 | 1,031 | 4,223 | 1,524 | 2,353 | 2,845 | 12,014 | 15,014 | 61 | 274 | 300 |
| 1976 | 1,027 | 7,655 | 1,177 | 3,013 | 4,841 | 17,746 | 25,825 | 78 | 197 | 246 |
| 1977 | 1,129 | 10,793 | 1,357 | 5,470 | 3,229 | 22,028 | 34,416 | 83 | 228 | 331 |
| 1978 | 997 | 7,819 | 1,281 | 2,319 | 6,641 | 19,102 | 38,687 | 69 | 265 | 415 |
| 1979 | 886 | 7,435 | 774 | 2,146 | 2,151 | 13,430 | 34,796 | 52 | 277 | 561 |
| 1980 | 670 | 3,265 | 848 | 1,711 | 7,548 | 14,084 | 31,042 | 51 | 258 | 669 |
| 1981 | 652 | 9,031 | 562 | 4,660 | 3,182 | 18,153 | 39,222 | 53 | 342 | 740 |
| 1982 | 917 | 9,817 | 870 | 526 | 5,525 | 17,742 | 41,387 | 51 | 348 | 811 |
| 1983 | 570 | 4,369 | 515 | 3,894 | 2,525 | 11,914 | 20,214 | - | - | - |

SEINE GEAR

| | CHINOOK | SOCKEYE | COHO | PINKS | CHUMS | TOTAL | VALUE | NUMBER OF DELIV. | AVERAGE CATCH PER DELIV. | AVERAGE VALUE PER DELIV. |
|---|---|---|---|---|---|---|---|---|---|---|
| | (t) | (t) | (t) | (t) | (t) | (t) | ($'000) | ('000) | (kg) | ($) |
| 1974 | 531 | 7,882 | 1,611 | 7,547 | 4,460 | 22,034 | 20,319 | 13 | 1,961 | 1,872 |
| 1975 | 558 | 1,152 | 1,901 | 6,026 | 2,483 | 12,128 | 11,934 | 10 | 1,695 | 1,563 |
| 1976 | 492 | 4,395 | 1,197 | 12,790 | 6,044 | 24,925 | 26,712 | 14 | 1,213 | 1,193 |
| 1977 | 926 | 6,237 | 1,981 | 12,814 | 2,696 | 24,661 | 29,697 | 16 | 1,780 | 1,908 |
| 1978 | 886 | 11,107 | 1,108 | 12,326 | 8,901 | 34,337 | 57,796 | 13 | 1,541 | 1,856 |
| 1979 | 903 | 5,861 | 1,539 | 13,983 | 2,425 | 24,717 | 42,522 | 12 | 2,641 | 4,446 |
| 1980 | 588 | 4,327 | 1,252 | 9,650 | 8,972 | 24,796 | 41,854 | 12 | 2,060 | 3,544 |
| 1981 | 774 | 11,636 | 1,430 | 24,297 | 2,847 | 40,994 | 63,864 | 10 | 4,099 | 6,386 |
| 1982 | 780 | 12,617 | 1,245 | 3,148 | 9,147 | 26,952 | 51,818 | 10 | 2,695 | 5,181 |
| 1983 | 489 | 8,950 | 1,348 | 30,034 | 2,031 | 42,865 | 45,507 | - | - | - |

TABLE 5 - CONT'D

| | TROLL GEAR | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | CHINOOK | SOCKEYE | COHO | PINKS | CHUMS | TOTAL | VALUE | NUMBER OF DELIV. | AVERAGE CATCH PER DELIV. | AVERAGE VALUE PER DELIV. |
| | (t) | (t) | (t) | (t) | (t) | (t) | ($'000) | ('000) | (kg) | ($) |
| 1974 | 6,123 | 2,786 | 7,078 | 974 | 76 | 17,043 | 27,007 | 126 | 124 | 211 |
| 1975 | 5,701 | 305 | 4,312 | 1,861 | 60 | 12,241 | 19,965 | 121 | 135 | 214 |
| 1976 | 6,257 | 288 | 6,948 | 1,254 | 37 | 14,790 | 39,405 | 134 | 102 | 165 |
| 1977 | 5,467 | 358 | 6,519 | 6,439 | 107 | 18,893 | 44,612 | 147 | 110 | 294 |
| 1978 | 6,004 | 3,395 | 6,763 | 686 | 313 | 17,165 | 61,681 | 150 | 129 | 303 |
| 1979 | 5,056 | 1,236 | 8,029 | 8,567 | 175 | 23,067 | 83,215 | 163 | 114 | 411 |
| 1980 | 5,282 | 135 | 6,925 | 2,357 | 289 | 14,991 | 44,107 | 189 | 142 | 511 |
| 1981 | 4,490 | 333 | 5,522 | 9,296 | 128 | 19,774 | 54,984 | 164 | 121 | 335 |
| 1982 | 5,395 | 7,709 | 7,182 | 303 | 419 | 21,010 | 71,897 | 169 | 124 | 420 |
| 1983 | 4,208 | 839 | 8,455 | 5,394 | 173 | 19,072 | 41,264 | - | - | - |

[1] Landings statistics for 1983 are provided by the Department of Fisheries and Oceans in a preliminary form and are subject to major revision. Number of deliveries and average delivery statistics by gear type are not yet available.

Note: Totals include steelhead.

TABLE 6 - PERCENT SALMON LANDINGS BY SPECIES AND GEAR - 1983[1]

(Round Weight in Metric Tons)

| SPECIES | Gillnet Quantity | % | Seine Quantity | % | Troll Quantity | % | Total Metric Tons |
|---|---|---|---|---|---|---|---|
| Chinook | 570 | 10.8 | 489 | 9.3 | 4,208 | 79.9 | 5,267 |
| Sockeye | 4,369 | 30.9 | 8,950 | 63.2 | 839 | 5.9 | 14,158 |
| Coho | 515 | 5.0 | 1,348 | 13.1 | 8,455 | 81.9 | 10,318 |
| Pinks | 3,894 | 9.9 | 30,034 | 76.4 | 5,394 | 13.7 | 39,322 |
| Chums | 2,525 | 53.4 | 2,031 | 42.9 | 173 | 3.7 | 4,729 |
| Steelhead | 41 | 71.9 | 13 | 22.8 | 3 | 5.3 | 57 |
| TOTAL | 11,914 | 16.1 | 42,865 | 58.1 | 19,072 | 25.8 | 73,851 |

[1] Landings statistics are provided by the Department of Fisheries and Oceans in a preliminary form and are subject to major revision.

TABLE 7 - LANDED AND WHOLESALE VALUE OF SALMON BY PRODUCT TYPE 1974 - 1983

($'000)

| | LANDED VALUE | CANNED | FRESH | FROZEN | ROE | OTHER | TOTAL WHOLESALE VALUE |
|---|---|---|---|---|---|---|---|
| 1974 | 73,998 | 114,312 | 5,868 | 30,216 | 11,890 | 3,555 | 165,841 |
| 1975 | 46,913 | 43,252 | 9,153 | 36,781 | 6,410 | 4,152 | 99,748 |
| 1976 | 91,942 | 91,733 | 11,018 | 60,959 | 16,056 | 7,278 | 187,045 |
| 1977 | 109,176[1] | 122,987 | 10,059 | 76,049 | 12,618 | 6,079 | 227,792 |
| 1978 | 158,686[1] | 115,913 | 14,584 | 134,416 | 24,202 | 14,904 | 304,019 |
| 1979 | 161,113[1] | 115,927 | 8,127 | 143,093 | 11,393 | 11,087 | 289,627 |
| 1980 | 117,149[1] | 146,828 | 10,429 | 109,300 | 13,209 | 9,341 | 289,107 |
| 1981 | 158,226[1] | 237,391 | 6,744 | 108,047 | 12,802 | 8,694 | 373,678 |
| 1982 | 165,207[1] | 127,126 | 10,633 | 155,762 | 9,829 | 11,988 | 315,338 |
| 1983[2] | 106,997[1] | 176,191 | 13,414 | 80,873 | 3,186 | 10,625 | 284,289 |

[1] Includes salmon roe.
[2] Landed value is provided by the Department of Fisheries and Oceans in a preliminary form and is subject to major revision.

TABLE 8 - LANDED AND WHOLESALE VALUE OF SALMON BY SPECIES 1974 - 1983[1]

| | Quantity Landed in Metric Tons (Round Weight) | Landed Value ($'000) | Average Landed Price Per Kilogram ($) | Wholesale Value[2] ($'000) | Landed Value as a Percent of Wholesale Value (%) |
|---|---|---|---|---|---|
| CHINOOK | | | | | |
| 1974 | 7,637 | 13,803 | 1.81 | 18,864 | 73.2 |
| 1975 | 7,289 | 12,172 | 1.67 | 20,270 | 60.0 |
| 1976 | 7,776 | 22,919 | 2.95 | 29,314 | 78.2 |
| 1977 | 7,522 | 23,589 | 3.14 | 36,832 | 64.0 |
| 1978 | 7,887 | 29,461 | 3.74 | 35,897 | 82.1 |
| 1979 | 6,845 | 31,159 | 4.55 | 40,475 | 77.0 |
| 1980 | 6,540 | 24,307 | 3.72 | 38,427 | 63.3 |
| 1981 | 5,916 | 25,731 | 4.35 | 38,073 | 67.6 |
| 1982 | 7,092 | 31,205 | 4.40 | 41,495 | 75.2 |
| 1983 | 5,267 | 17,219 | 3.27 | 29,490 | 58.4 |
| SOCKEYE | | | | | |
| 1974 | 21,694 | 29,841 | 1.38 | 65,221 | 45.8 |
| 1975 | 5,681 | 8,184 | 1.44 | 19,538 | 41.9 |
| 1976 | 12,339 | 20,656 | 1.67 | 45,701 | 45.2 |
| 1977 | 17,388 | 32,218 | 1.85 | 65,579 | 49.1 |
| 1978 | 22,321 | 55,181 | 2.47 | 107,817 | 51.2 |
| 1979 | 14,532 | 43,307 | 2.98 | 81,008 | 53.5 |
| 1980 | 7,727 | 18,222 | 2.36 | 68,224 | 26.7 |
| 1981 | 21,000 | 54,577 | 2.60 | 131,030 | 41.7 |
| 1982 | 30,143 | 78,860 | 2.62 | 158,492 | 49.8 |
| 1983 | 14,158 | 33,920 | 2.40 | 84,996 | 39.9 |
| COHO | | | | | |
| 1974 | 10,378 | 13,834 | 1.33 | 24,375 | 56.8 |
| 1975 | 7,737 | 12,401 | 1.60 | 19,783 | 62.7 |
| 1976 | 9,322 | 21,331 | 2.29 | 29,906 | 71.3 |
| 1977 | 9,857 | 22,671 | 2.30 | 35,431 | 64.0 |
| 1978 | 9,152 | 27,269 | 2.98 | 41,023 | 66.5 |
| 1979 | 10,342 | 44,063 | 4.26 | 57,203 | 77.0 |
| 1980 | 9,025 | 23,078 | 2.56 | 43,645 | 52.9 |
| 1981 | 7,514 | 22,009 | 2.93 | 38,433 | 57.3 |
| 1982 | 9,297 | 26,144 | 2.81 | 42,595 | 61.4 |
| 1983 | 10,318 | 21,916 | 2.12 | 39,384 | 55.6 |

TABLE 8 - CONT'D

| | Quantity Landed in Metric Tons (Round Weight) | Landed Value ($'000) | Average Landed Price Per Kilogram ($) | Wholesale Value[2] ($'000) | Landed Value as a Percent of Wholesale Value (%) |
|---|---|---|---|---|---|
| PINKS | | | | | |
| 1974 | 11,207 | 5,791 | 0.52 | 22,215 | 26.1 |
| 1975 | 10,239 | 6,900 | 0.67 | 21,040 | 32.8 |
| 1976 | 17,056 | 12,124 | 0.71 | 37,085 | 32.7 |
| 1977 | 24,723 | 22,262 | 0.90 | 59,217 | 37.6 |
| 1978 | 15,331 | 12,835 | 0.84 | 39,544 | 32.5 |
| 1979 | 24,696 | 29,685 | 1.20 | 76,867 | 38.6 |
| 1980 | 13,718 | 15,118 | 1.10 | 58,655 | 25.8 |
| 1981 | 38,253 | 45,822 | 1.20 | 128,553 | 35.6 |
| 1982 | 3,977 | 3,195 | 0.80 | 17,813 | 17.9 |
| 1983 | 39,322 | 26,502 | 0.67 | 109,732 | 24.2 |
| CHUMS | | | | | |
| 1974 | 12,479 | 10,680 | 0.86 | 22,350 | 47.8 |
| 1975 | 5,389 | 7,206 | 1.34 | 11,588 | 62.2 |
| 1976 | 10,922 | 14,835 | 1.36 | 27,075 | 54.8 |
| 1977 | 6,032 | 7,905 | 1.31 | 16,676 | 47.4 |
| 1978 | 15,855 | 33,336 | 2.10 | 50,878 | 65.5 |
| 1979 | 4,751 | 12,243 | 2.58 | 21,262 | 57.6 |
| 1980 | 16,809 | 36,197 | 2.15 | 64,608 | 56.0 |
| 1981 | 6,157 | 9,781 | 1.59 | 22,271 | 43.9 |
| 1982 | 15,091 | 25,528 | 1.69 | 42,887 | 59.5 |
| 1983 | 4,729 | 7,334 | 1.55 | 14,777 | 49.6 |
| STEELHEAD | | | | | |
| 1974 | 49 | 49 | 1.00 | 101 | 48.5 |
| 1975 | 49 | 50 | 1.02 | 110 | 45.5 |
| 1976 | 47 | 77 | 1.64 | 139 | 55.4 |
| 1977 | 59 | 80 | 1.36 | 223 | 35.9 |
| 1978 | 57 | 82 | 1.44 | 258 | 31.8 |
| 1979 | 48 | 96 | 2.00 | 250 | 38.4 |
| 1980 | 52 | 81 | 1.56 | 248 | 32.7 |
| 1981 | 81 | 147 | 1.81 | 387 | 38.0 |
| 1982 | 104 | 170 | 1.63 | 520 | 32.7 |
| 1983 | 57 | 94 | 1.65 | 308 | 30.5 |

[1] Landings statistics are provided by the Department of Fisheries and Oceans in a preliminary form and are subject to major revision.
[2] 1979 to 1983 wholesale values include the value of imported salmon processed in B.C.

TABLE 9 - PRODUCTION AND UTILIZATION OF SALMON BY SPECIES 1982 - 1983

| | UNIT | 1982 QUANTITY | 1982 VALUE[1] ($'000) | 1982 AVERAGE[2] PRICE ($) | 1983 QUANTITY | 1983 VALUE[1] ($'000) | 1983 AVERAGE[2] PRICE ($) |
|---|---|---|---|---|---|---|---|
| **SOCKEYE** | | | | | | | |
| Canned | 48-lb. cases | 548,998 | 97,241 | 177.12 | 371,483 | 66,293 | 178.46 |
| Fresh Round | 000 kg | 83 | 297 | 3.57 | 32 | 112 | 3.51 |
| Fresh Dressed | 000 kg | 499 | 2,491 | 4.99 | 602 | 2,857 | 4.75 |
| Frozen Round | 000 kg | * | * | - | * | * | - |
| Frozen Dressed | 000 kg | 9,757 | 52,262 | 5.36 | 2,133 | 11,178 | 5.24 |
| Frozen Steaks | 000 kg | 33 | 283 | 8.66 | 23 | 193 | 8.45 |
| Mild Cured | 000 kg | 463 | 3,255 | 7.03 | 75 | 491 | 6.58 |
| Smoked | 000 kg | 167 | 2,465 | 14.79 | 262 | 3,864 | 14.76 |
| Other | 000 kg | - | 198 | - | - | 8 | - |
| TOTAL | 000 kg | - | 158,492 | - | - | 84,996 | - |
| **PINKS** | | | | | | | |
| Canned | 48-lb. cases | 140,415 | 16,282 | 115.96 | 996,727 | 96,723 | 97.04 |
| Fresh Round | 000 kg | * | * | - | 216 | 173 | 0.80 |
| Fresh Dressed | 000 kg | 43 | 117 | 2.73 | 685 | 1,578 | 2.30 |
| Frozen Round | 000 kg | * | * | - | * | * | - |
| Frozen Dressed | 000 kg | 413 | 1,303 | 3.15 | 4,277 | 11,056 | 2.58 |
| Frozen Steaks | 000 kg | - | - | - | * | * | - |
| Mild Cured | 000 kg | * | * | - | - | - | - |
| Smoked | 000 kg | 9 | 106 | 11.71 | 22 | 146 | 6.61 |
| Other | 000 kg | - | 5 | - | - | 56 | - |
| TOTAL | 000 kg | - | 17,813 | - | - | 109,732 | - |
| **CHUMS** | | | | | | | |
| Canned | 48-lb. cases | 74,127 | 5,790 | 78.11 | 47,120 | 4,421 | 93.83 |
| Fresh Round | 000 kg | 36 | 64 | 1.81 | 14 | 24 | 1.67 |
| Fresh Dressed | 000 kg | 483 | 1,749 | 3.62 | 260 | 795 | 3.06 |
| Frozen Dressed | 000 kg | 8,643 | 34,287 | 3.97 | 2,217 | 8,576 | 3.87 |
| Frozen Steaks | 000 kg | * | * | - | 94 | 544 | 5.78 |
| Mild Cured | 000 kg | * | * | - | - | - | - |
| Smoked | 000 kg | 34 | 282 | 8.38 | 45 | 408 | 9.09 |
| Other | 000 kg | - | 715 | - | - | 9 | - |
| TOTAL | 000 kg | - | 42,887 | - | - | 14,777 | - |

TABLE 9 - CONT'D

| | UNIT | 1982 QUANTITY | 1982 VALUE[1] ($'000) | 1982 AVERAGE[2] PRICE ($) | 1983 QUANTITY | 1983 VALUE[1] ($'000) | 1983 AVERAGE[2] PRICE ($) |
|---|---|---|---|---|---|---|---|
| **COHO (& BLUEBACK)** | | | | | | | |
| Canned | 48-lb. cases | 47,246 | 6,892 | 145.87 | 60,560 | 8,273 | 136.61 |
| Fresh Round | 000 kg | * | * | - | 1 | 2 | 3.86 |
| Fresh Dressed | 000 kg | 360 | 1,720 | 4.78 | 557 | 2,501 | 4.49 |
| Frozen Dressed | 000 kg | 5,425 | 33,452 | 6.17 | 5,722 | 28,105 | 4.91 |
| Frozen Steaks | 000 kg | 12 | 113 | 9.37 | 62 | 338 | 5.49 |
| Mild Cured | 000 kg | * | * | - | * | * | - |
| Smoked | 000 kg | 27 | 370 | 13.87 | 7 | 69 | 9.63 |
| Other | 000 kg | - | 48 | - | - | 96 | - |
| TOTAL | 000 kg | - | 42,595 | - | - | 39,384 | - |
| **CHINOOK** | | | | | | | |
| Canned | 48-lb. cases | 7,661 | 878 | 114.61 | 4,306 | 444 | 103.02 |
| Fresh Round | 000 kg | * | * | - | 1 | 2 | 4.20 |
| Fresh Dressed | 000 kg | 604 | 4,176 | 6.92 | 853 | 5,365 | 6.29 |
| Frozen Round | 000 kg | * | * | - | * | * | - |
| Frozen Dressed | 000 kg | 4,013 | 33,398 | 8.33 | 2,737 | 20,549 | 7.51 |
| Frozen Steaks | 000 kg | * | * | - | 2 | 15 | 6.60 |
| Mild Cured | 000 kg | 16 | 230 | 14.73 | * | * | - |
| Smoked | 000 kg | 270 | 2,720 | 10.05 | 239 | 2,392 | 10.02 |
| Other | 000 kg | - | 93 | - | - | 723 | - |
| TOTAL | 000 kg | - | 41,495 | - | - | 29,490 | - |
| **STEELHEAD** | | | | | | | |
| Canned | 48-lb. cases | 384 | 43 | 111.98 | 331 | 37 | 112.52 |
| Fresh Round | 000 kg | * | * | - | -[3] | -[3] | - |
| Fresh Dressed | 000 kg | 3 | 13 | 3.97 | 1 | 5 | 4.62 |
| Frozen Dressed | 000 kg | 86 | 418 | 4.89 | 53 | 265 | 5.00 |
| Mild Cured | 000 kg | * | * | - | - | - | - |
| Smoked | 000 kg | 3 | 44 | 14.48 | * | * | - |
| Other | 000 kg | - | 2 | - | - | 1 | - |
| TOTAL | 000 kg | - | 520 | - | - | 308 | - |

## TABLE 9 - CONT'D

| | UNIT | 1982 QUANTITY | 1982 VALUE[1] ($'000) | 1982 AVERAGE[2] PRICE ($) | 1983 QUANTITY | 1983 VALUE[1] ($'000) | 1983 AVERAGE[2] PRICE ($) |
|---|---|---|---|---|---|---|---|
| ALL SALMON[4] | | | | | | | |
| Canned | 48-lb. cases | 818,831 | 127,126 | 155.25 | 1,480,527 | 176,191 | 119.01 |
| Fresh Round | 000 kg | 120 | 367 | 3.06 | 264 | 313 | 1.19 |
| Fresh Dressed | 000 kg | 1,991 | 10,266 | 5.16 | 2,958 | 13,101 | 4.43 |
| Frozen Round | 000 kg | * | * | - | * | * | - |
| Frozen Dressed | 000 kg | 28,336 | 155,120 | 5.47 | 17,139 | 79,729 | 4.65 |
| Frozen Steaks | 000 kg | 92 | 642 | 6.97 | 199 | 1,144 | 5.75 |
| Mild Cured | 000 kg | 487 | 3,539 | 7.28 | 153 | 1,284 | 8.42 |
| Smoked | 000 kg | 509 | 5,987 | 11.77 | 575 | 6,880 | 11.96 |
| Salmon Roe | 000 kg | 1,315 | 9,829 | 7.47 | 861 | 3,186 | 3.70 |
| Other Specialty Products | 000 kg | - | 642 | - | - | 38 | - |
| Other[5] | 000 kg | - | 1,820 | - | - | 2,423 | - |
| TOTAL | 000 kg | - | 315,338 | - | - | 284,289 | - |

1 Note: Any discrepancies in VALUE($'000) figures are due to rounding.
2 Average Price:
Canned Salmon $'s per 48-lb. case.
Other Salmon Products $'s per kg.
Value divided by quantity may not equal average price due to rounding.
3 Less than 500 kg. and $500.
4 Note: The total value of "ALL SALMON" includes such products as offal, oil, meal, etc. which could not be allocated to particular species. Also included are the values of some items where less than three companies are reported.
5 Includes offal, offal meal, oil, viscera, heads, bait, milts, other products and the value of items where less than three companies reported.

*Confidential. Fewer than three companies reporting.

TABLE 10 - B.C. CANNED SALMON PRODUCTION BY REGION - 1983

(48 lb. Cases)

| AREA | SOCKEYE | RED | CHINOOK | PINK | WHITE | COHO | PINKS | CHUMS | STEELHEAD | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| North Coast | 63,953 | 318 | 802 | 174 | 18,576 | 386,549 | 13,446 | 266 | 484,084 | |
| Fraser Area & South Coast | 307,530 | 837 | 1,719 | 456 | 41,984 | 610,178 | 33,674 | 65 | 996,443 | |
| TOTAL | 371,483 | 1,155 | 2,521 | 630 | 60,560 | 996,727 | 47,120 | 331 | 1,480,527 | |

TABLE 11 - BRITISH COLUMBIA CANNED SALMON PRODUCTION : QUANTITY AND VALUE BY SPECIES - 1983[1]

| SPECIES | QUANTITY (48 lb. Cases) | WHOLESALE VALUE ($'000) | AVG. PRICE $/48 lb. Case[2] | NET SELLING VALUE ($'000) | AVG. PRICE $/48 lb. Case[2] |
|---|---|---|---|---|---|
| Sockeye | 371,483 | 66,293 | 178.46 | 62,965 | 169.49 |
| Red Chinook | 1,155 | 141 | 121.78 | 138 | 119.04 |
| Pink Chinook | 2,521 | 251 | 99.41 | 236 | 93.39 |
| White Chinook | 630 | 52 | 82.27 | 49 | 77.82 |
| Coho | 60,560 | 8,273 | 136.61 | 7,882 | 130.14 |
| Pink | 996,727 | 96,723 | 97.04 | 90,171 | 90.47 |
| Chum | 47,120 | 4,421 | 93.83 | 4,108 | 87.19 |
| Steelhead | 331 | 37 | 112.52 | 35 | 105.70 |
| TOTAL | 1,480,527 | 176,191 | - | 165,584 | - |

1 For the first time in 1983, fish processors were requested to report both a final wholesale value and a net selling value for their canned salmon production. The final wholesale value represents gross sales based upon company invoices. The net selling value refers to the final selling price after promotions, case allowances, cash discounts and other trade discounts which apply.

2 Value divided by quantity may not equal average price due to rounding.

TABLE 12 - WHOLESALE VALUE OF SALMON BY SPECIES 1974 - 1983

($'000)

| | SOCKEYE | CHUMS | PINKS | COHO | CHINOOK | STEEL-HEAD | NOT CLASSIFIED | TOTAL WHOLESALE VALUE |
|---|---|---|---|---|---|---|---|---|
| 1974 | 65,221 | 22,350 | 22,215 | 24,375 | 18,864 | 101 | 12,715 | 165,842 |
| 1975 | 19,538 | 11,588 | 21,040 | 19,783 | 20,270 | 110 | 7,419 | 99,741 |
| 1976 | 45,701 | 27,075 | 37,085 | 29,906 | 29,314 | 139 | 17,825 | 187,048 |
| 1977 | 65,579 | 16,676 | 59,217 | 35,431 | 36,832 | 223 | 13,834 | 227,745 |
| 1978 | 107,817 | 50,878 | 39,544 | 41,023 | 35,897 | 258 | 28,602 | 304,092 |
| 1979 | 81,008 | 21,262 | 76,867 | 57,203 | 40,475 | 250 | 12,562 | 289,619 |
| 1980 | 68,224 | 64,608 | 58,655 | 43,645 | 38,427 | 248 | 15,300 | 289,127 |
| 1981 | 131,030 | 22,271 | 128,553 | 38,433 | 38,073 | 387 | 14,931 | 373,607 |
| 1982 | 158,492 | 42,887 | 17,813 | 42,595 | 41,495 | 520 | 11,536 | 315,338 |
| 1983 | 84,996 | 14,777 | 109,732 | 39,384 | 29,490 | 308 | 5,602 | 284,289 |

TABLE 13 - COMPARISON OF THE 1983 SALMON PACK TO THE TEN YEAR AVERAGE PACK

1974 - 1983

| | 1974 - 1983 Average | 1983 | Percentage Change |
|---|---|---|---|
| | 48 lb. Cases | 48 lb. Cases | % |
| Sockeye | 443,688 | 371,483 | - 16 |
| Pinks | 537,329 | 996,727 | + 85 |
| Chums | 95,575 | 47,120 | - 51 |
| Coho | 71,954 | 60,560 | - 16 |
| Other | 13,002 | 4,637 | - 64 |
| TOTAL | 1,161,548 | 1,480,527 | + 27 |

TABLE 14 - CANNED SALMON PACK IN B.C. BY SPECIES 1974 - 1983

(48 lb. Cases)

| | SOCKEYE | PINKS | CHUMS | COHO | OTHER | TOTAL | WHOLESALE VALUE ($'000) |
|---|---|---|---|---|---|---|---|
| 1974 | 709,180 | 307,192 | 230,634 | 160,051 | 21,825 | 1,428,882 | 114,312 |
| 1975 | 164,055 | 240,592 | 37,093 | 61,081 | 14,549 | 517,370 | 43,252 |
| 1976 | 376,047 | 483,054 | 85,540 | 69,850 | 11,339 | 1,025,830 | 91,733 |
| 1977 | 494,172 | 686,911 | 61,309 | 74,180 | 30,395 | 1,346,967 | 122,987 |
| 1978 | 485,748 | 456,058 | 121,487 | 53,960 | 9,623 | 1,126,876 | 115,913 |
| 1979 | 295,858 | 569,337 | 33,689 | 43,061 | 13,280 | 955,225 | 115,927 |
| 1980 | 368,844 | 472,462 | 176,884 | 88,217 | 8,019 | 1,114,426 | 146,828 |
| 1981 | 622,490 | 1,020,545 | 87,866 | 61,333 | 8,311 | 1,800,545 | 237,391 |
| 1982 | 548,998 | 140,415 | 74,127 | 47,246 | 8,045 | 818,831 | 127,126 |
| 1983 | 371,483 | 996,727 | 47,120 | 60,560 | 4,637 | 1,480,527 | 176,191 |

II. ANALYSIS BY SPECIES (CONT'D)

B) HERRING

In 1983 total herring landings increased by 39 percent from 28,775 tonnes in 1982 to 39,987 tonnes. Overall, the landed value increased from $35.9 million to $53.0 million, an increase of 48 percent.

Specifically roe herring landings rose from 27,658 tonnes in 1982 to 39,096 tonnes in 1983, an increase of 41 percent. The landed value of roe herring increased by 48 percent from $35.5 million to $52.5 million. Food and bait herring landings dropped again in 1983 from 1,117 tonnes to 891 tonnes. The landed value of this fishery however was able to show a marginal increase to $492 thousand from $450 thousand in 1982. Sixteen vessels participated in this fishery in 1983 compared to 31 vessels last year.

The total wholesale value of herring production in 1983 was $111.1 million, an increase of 28 percent over the $86.4 million of 1982. The wholesale value of herring roe production was $104.5 million, up 29 percent from 1982. Combined roe herring production, including spawn-on-kelp accounted for 94 percent of the total wholesale value of herring production [1]. The wholesale value of herring frozen for food was $418 thousand while bait was valued at $1.8 million. Frozen food and bait herring accounted for only 2 percent of the total herring wholesale value in 1983. Other herring products, include kippers, kippered snacks, pickled, fillets, carcasses, meal and oil valued at $4.2 million or 4 percent of the total.

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[1] Note that roe herring by-products such as herring meal and oil, which were formerly included in the wholesale value of food and bait herring, are now included in the wholesale value of roe herring products.

TABLE 15 - ROE HERRING LANDINGS AND WHOLESALE VALUE OF ROE HERRING PRODUCTS

1974 - 1983

| | LANDINGS[1] (t) | LANDED VALUE[1] ($'000) | WHOLESALE VALUE ROE ($'000) | WHOLESALE VALUE SPAWN ON KELP ($'000) | WHOLESALE VALUE FROZEN FOR ROE ($'000) | TOTAL WHOLESALE VALUE[5] ($'000) |
|---|---|---|---|---|---|---|
| 1974 | 43,505 | 11,876 | 24,699 | - | 1,802 | 28,858 |
| 1975 | 53,293 | 13,812 | 24,081[2] | 100 | 5,836 | 31,405 |
| 1976 | 78,832 | 23,333 | 52,196[2] | 597 | 6,444 | 61,848 |
| 1977 | 73,485 | 29,542 | 73,292 | 1,407 | 1,405 | 79,799 |
| 1978 | 63,408 | 52,933 | 130,743 | 2,521 | 3,979 | 141,508 |
| 1979 | 37,480 | 126,866 | 182,304 | 5,011 | 5,163 | 195,387 |
| 1980 | 16,414 | 26,357 | 33,074 | 2,448 | 1,058 | 38,297 |
| 1981 | 29,486 | 35,928 | 69,946 | 3,308 | -[3] | 73,849 |
| 1982 | 27,658 | 35,479 | 76,963 | 3,900 | - | 83,057 |
| 1983[4] | 39,096 | 52,540 | 98,094 | 6,455 | - | 107,946 |

1 Includes spawn on kelp (1975 - 1983).
2 Includes spawn off nets.
3 Confidential - less than three companies reporting. Included in the total wholesale value in Table 16.
4 Landings statistics are provided by the Department of Fisheries and Oceans in a preliminary form and are subject to major revision.
5 Revised. Includes roe herring by-products.

TABLE 16 - FOOD AND BAIT HERRING LANDINGS AND WHOLESALE VALUE OF FOOD AND BAIT HERRING PRODUCTS 1974 - 1983

| | LANDINGS (t) | LANDED VALUE ($'000) | WHOLESALE VALUE FROZEN FOR FOOD ($'000) | WHOLESALE VALUE BAIT ($'000) | TOTAL WHOLESALE VALUE[1] ($'000) |
|---|---|---|---|---|---|
| 1974 | 1,165 | 167 | 236 | 293 | 998 |
| 1975 | 6,361 | 772 | 674 | 611 | 3,528 |
| 1976 | 2,329 | 542 | 2,207 | 172 | 3,698 |
| 1977 | 23,805 | 4,156 | 8,353 | 449 | 10,265 |
| 1978 | 18,145 | 4,194 | 9,484 | 1,420 | 13,523 |
| 1979 | 6,181 | 2,131 | 3,204 | 2,133 | 6,546 |
| 1980 | 8,909 | 2,891 | 7,207 | 1,597 | 9,919 |
| 1981 | 8,663 | 2,177 | 5,516 | 1,480 | 8,602 |
| 1982 | 1,117 | 450 | 1,010 | 1,463 | 3,391 |
| 1983[2] | 891 | 492 | 418 | 1,838 | 3,104 |

1 Revised. Previously included roe herring by-products. Now includes other herring products.
2 Landings statistics are provided by the Department of Fisheries and Oceans in a preliminary form and are subject to major revision.

## II. ANALYSIS BY SPECIES (CONT'D)

### C) HALIBUT

Landings of halibut in Canadian waters increased 10 percent in 1983 from 1,690 tonnes in 1982 to 1,865 tonnes. The landed value increased by 35 percent from $4.7 million to $6.4 million. In addition to these landings, 533 tonnes of halibut valued at $1.9 million were delivered by Canadian fishermen to U.S. ports. This compares to the 692 tonnes, worth an estimated $2.4 million, delivered to U.S. ports in 1982. The total catch by B.C. fishermen was therefore 2,398 tonnes of halibut, valued at $8.3 million. While the overall landed quantity remained virtually the same, the total landed value increased by 17 percent over 1982.

The total wholesale value of halibut processed in British Columbia plants was almost $9.3 million in 1983, an increase of 69 percent over the $5.5 million of last year. The major processing activity was, as in past years, freezing; with frozen dressed halibut accounting for 76 percent of the total wholesale value. Fresh dressed halibut contributed 19 percent to the total wholesale value in 1983. Halibut fillets, fletches, steaks and other products were also marketed. Including halibut landed by B.C. fishermen and delivered to U.S. ports, the total 1983 wholesale value was up by 42 percent from $7.9 million in 1982 to $11.2 million.

TABLE 17 - LANDINGS AND WHOLESALE VALUE OF HALIBUT IN B.C.[1]

1974 - 1983

| | TOTAL LANDINGS (t) | LANDED VALUE ($'000) | AVG. LANDED PRICE ($)/KG | WHOLESALE VALUE ($'000) |
|---|---|---|---|---|
| 1974 | 2,948 | 4,746 | 1.61 | 6,302[2] |
| 1975 | 3,538 | 7,055 | 1.99 | 9,803[2] |
| 1976 | 4,318 | 11,974 | 2.77 | 15,347[2] |
| 1977 | 2,818 | 8,278 | 2.94 | 9,756 |
| 1978 | 2,294 | 10,001 | 4.36 | 12,827 |
| 1979 | 2,410 | 14,004 | 5.81 | 17,692 |
| 1980 | 2,668 | 7,341 | 2.75 | 9,962 |
| 1981 | 2,233 | 6,592 | 2.95 | 10,548 |
| 1982 | 1,690 | 4,715 | 2.79 | 5,488 |
| 1983[3] | 1,865 | 6,378 | 3.42 | 9,268 |

1 Not including Canadian landings of halibut in Alaska and Washington.
2 Includes the value of specialty items such as fish and chips, portions, fish sticks, etc.
3 Landings statistics are provided by the Department of Fisheries and Oceans in a preliminary form and are subject to major revision.

## II. ANALYSIS BY SPECIES (CONT'D)

### D) GROUNDFISH

Domestic groundfish landings increased slightly in 1983, from 34,253 tonnes in 1982 to 35,393 tonnes, an increase of 3 percent[1]. The landed value increased by 1 percent from $18.6 million to $18.8 million in 1983. Specifically, the landed values of grey cod, rockfish, skate and sole experienced marginal increases while all other groundfish species showed decreases. Included in these statistics are domestic hake landings which increased to 3,070 tonnes in 1983 from 2,041 tonnes in 1982.

The total wholesale value of groundfish production increased by 14 percent over the 1982 value of $36.9 million, to $42.2 million in 1983. Rockfish were the most significant species group with their combined wholesale value of $11.8 million accounting for 28 percent of the total. This was a result of a dramatic 119 percent increase in wholesale value over 1982. Other species displaying increases over last year include ling cod, skate, and pollock. Sablefish continued its upward trend in wholesale value, reaching $7.4 million, an increase of 5 percent. Other traditional groundfish species such as sole, grey cod, flounder, turbot, hake and dogfish showed a slight decrease in wholesale value.

The landed quantities and wholesale values identified above do not include those of hake cooperative fishing arrangements with foreign nations. In 1983, 27,656 tonnes worth an estimated $4.6 million, were purchased by foreign countries through over-the-side sales from Canadian fishermen. This was an increase of 41 percent in landings and 42 percent in landed value over last year.

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[1] It should also be noted that for the second year dogfish landings are estimated from catch statistics, production data and U.S. import data.

TABLE 18 - COMPARATIVE WHOLESALE VALUES OF MAJOR GROUNDFISH SPECIES

1981 - 1983

| SPECIES | 1981 ($'000) | 1982 ($'000) | 1983 ($'000) |
|---|---|---|---|
| Sole | 5,854 | 4,723 | 4,093 |
| Rockfish[1] | 8,257 | 5,399 | 11,828 |
| Grey Cod | 9,534 | 7,603 | 7,452 |
| Ling Cod | 2,612 | 3,685 | 3,814 |
| Sablefish | 6,090 | 7,081 | 7,447 |
| Flounder | 142 | 108 | 58 |
| Skate | 223 | 122 | 163 |
| Pollock | 1,687 | 2,084 | 2,372 |
| Turbot | 1,011 | 1,182 | 1,124 |
| Hake[2] | 1,790 | 555 | 400 |
| Dogfish | 381 | 1,392 | 836 |
| Other Groundfish[3] | 3,734 | 2,997 | 2,572 |
| TOTAL | 41,315 | 36,931 | 42,159 |

1 Includes "Pacific Ocean Perch", "Red Snapper" and Other Rockfish.
2 Does not include over-the-side sales to foreign vessels in co-operative fishing arrangements.
3 Includes other groundfish, portions, sticks and specialties, and other groundfish products.

## II. ANALYSIS BY SPECIES (CONT'D)

### E) SHELLFISH

Shellfish landings increased from 7,993 tonnes in 1982 to 9,690 tonnes in 1983. This combined increase of 21 percent reflects minor fluctuations in landings for most shellfish species. While abalone, crab and geoduck landings were down from last year, clams, octopus, oysters, shrimp and prawns and other shellfish recorded increases. The total landed value was also up from $10.8 million to $12.1 million, an increase of 11 percent. The landed value for all species followed the same trend as landings with the exception of crabs, which showed a decrease in landings but an increase in landed value.

The total wholesale value of shellfish production increased by 7 percent from $16.7 million in 1982 to $17.9 million in 1983. Clams, including geoducks, accounted for 39 percent, crabs 22 percent, shrimp and prawns 20 percent, and oysters 9 percent. Abalone, octopus, squid, mussels, scallops, sea urchins and other shellfish acounted for the remaining 10 percent. It should be noted that the wholesale value of shrimp and prawns does not reflect the fact that a large proportion of prawns are sold directly to consumers by fishermen. For similar reasons, the wholesale value of crab production may also not accurately reflect this type of sales.

TABLE 19 - COMPARATIVE WHOLESALE VALUES OF MAJOR SHELLFISH SPECIES

1981 - 1983

| SPECIES | 1981 ($'000) | 1982 ($'000) | 1983 ($'000) |
|---|---|---|---|
| Abalone | 999 | 706 | 590 |
| Clams[1] | 693 | 2,343 | 2,686 |
| Geoducks | 3,769 | 5,162 | 4,202 |
| Crabs | 3,303 | 3,285 | 3,941 |
| Octopus | 55 | 51 | 97 |
| Oysters | 1,287 | 1,229 | 1,599 |
| Shrimp | 1,870 | 1,452 | 1,308 |
| Prawns | 1,239 | 1,929 | 2,270 |
| Squid | 38 | 20 | 13 |
| Mussels | * | 3 | 4 |
| Scallops | - | - | 23 |
| Sea Urchins | 176 | * | 935 |
| Other | 190[2] | 556[3] | 183[3] |
| TOTAL | 13,619 | 16,736 | 17,851 |

1 Includes horse clams.
2 Includes mussels, and other shellfish n.e.s.
3 Other shellfish n.e.s.

* Confidential less than three companies reporting. Included in "other".

## II. ANALYSIS BY SPECIES (CONT'D)

### F) MARICULTURE PRODUCTION

#### 1. OYSTERS

The total quantity of oyster production in 1983 increased by 55 percent from 1,579 tonnes to 2,453 tonnes. The landed value increased by 58 percent over last year to total $1.5 million. This growth can be attributed, at least in part, to an increased effort in the seeding of leases over the last few years by some of the major growers. There also has been an increased demand, in the marketplace, for smaller oyster products (particularly half-shell oysters) which has allowed growers to get products to market earlier. Half shell oyster production continued its upward trend for the third consecutive year, this year reaching 132,000 dozen, an increase of 27 percent over 104,000 dozen in 1982

TABLE 20 - BRITISH COLUMBIA OYSTER PRODUCTION - 1974 - 1983

| | Production[1] (metric tons) | Landed Value ($'000) |
|---|---|---|
| 1974 | 3,930 | 880 |
| 1975 | 3,246 | 883 |
| 1976 | 3,245 | 887 |
| 1977 | 2,998 | 981 |
| 1978 | 2,793 | 1,021 |
| 1979 | 2,231 | 893 |
| 1980 | 1,922 | 1,134 |
| 1981[2] | 1,415 | 1,030 |
| 1982[2] | 1,579 | 981 |
| 1983[2] | 2,453 | 1,554 |

1 1974-1980 production data was provided by the Department of Fisheries Oceans and 1981 - 1983 data was provided by the Shellfish Management Development Unit, Marine Resources Branch.

2 Includes a small amount of wild oyster harvest from picking permits.

## 2. SALMON FARMING IN BRITISH COLUMBIA

Salmon farming in British Columbia is in a developmental stage at this time. Although five species of Pacific salmon are indigenous to British Columbia, coho and chinook salmon are favored for farming. These salmon have been reared in captivity ranging from "pan-size" to sizes comparable to those landed in the commercial fishery.

Initial interest in this industry has grown to a point where there are now 10 active operations. In 1983 eight companies reported production totalling 128 tonnes worth $708 thousand. This represents a 53 percent drop in quantity and a 38 percent decline in value from the industry record production in 1982 of 273 tonnes worth $1.1 million. This downturn was due primarily to the fact that the single largest producer ceased operations in 1982.

Originally the salmon farming industry was geared to the production of "pan-size" (250-300 g) salmon for sale to restaurants and supermarkets during the off season of the commercial fishery. Acceptance of this product has been achieved in some markets but demand is also growing for large (1 kg or greater) fresh, farmed salmon. Production is expected to grow rapidly in the next few years to meet this developing demand for large fresh salmon.

TABLE 21 - BRITISH COLUMBIA SALMON MARICULTURE PRODUCTION - 1979 - 1983[1]

| | COHO | | CHINOOK | | TOTAL PRODUCTION | |
|---|---|---|---|---|---|---|
| | Quantity (Metric Tons) | Value ($'000) | Quantity (Metric Tons) | Value ($'000) | Quantity (Metric Tons) | Value ($'000) |
| 1979 | 41 | 157 | - | - | 41 | 157 |
| 1980 | 157 | 898 | - | - | 157 | 898 |
| 1981 | 176 | 985 | - | - | 176 | 985 |
| 1982 | 230 | 908 | 43 | 228 | 273 | 1,136 |
| 1983 | 73 | 350 | 55 | 358 | 128 | 708 |

[1] Source: British Columbia Annual Fisheries Production Statistics and British Columbia Commercial Fish Farm Statistics.

## II. ANALYSIS BY SPECIES (CONT'D)

### G) MAJOR SPECIES BY PRODUCT TYPE

TABLE 22 - LANDINGS AND PRODUCTS PROCESSED IN B.C. - 1983[1]

| SPECIES | UNIT OF MEASURE | QUANTITY | VALUE[2] ($'000) |
|---|---|---|---|
| **ABALONE** | | | |
| Landed: | 000 kg | 56 | 462 |
| Processed: | | | |
| Abalone Products[3] | | - | 590 |
| Total Wholesale Value | | - | 590 |
| **CLAMS** | | | |
| Butter Clams Landed[4] | 000 kg | - | - |
| Processed: | | | |
| Butter Clam Products[5] | 000 kg | - | 89 |
| Total Wholesale Value | | - | 89 |
| Geoduck Clams Landed | 000 kg | 2,717 | 1,872 |
| Processed: | | | |
| Live | 000 kg | 243 | 397 |
| Neck Meat | 000 kg | 496 | 3,271 |
| Body Meat | 000 kg | 263 | 530 |
| Other[6] | | - | 4 |
| Total Wholesale Value | | - | 4,202 |
| Horse Clams Landed | 000 kg | 21 | 12 |
| Processed: | | | |
| Horse Clam Products[7] | | - | 47 |
| Total Wholesale Value | | - | 47 |
| Littleneck Clams Landed[4] | 000 kg | - | - |
| Processed: | | | |
| Live | | 1,395 | 2,454 |
| Total Wholesale Value | | - | 2,454 |
| Other Clams Landed | 000 kg | 1,678 | 1,636 |
| Processed: | | | |
| Clam Products[8] | | - | 96 |
| Total Wholesale Value | | - | 96 |
| **CRABS** | | | |
| Landed | 000 kg | 839 | 2,866 |
| Processed: | | | |
| In shell, Fresh | 000 kg | 570 | 2,323 |
| In shell, Frozen | 000 kg | 59 | 352 |
| Meat, Fresh | 000 kg | 38 | 914 |
| Meat, Frozen | 000 kg | 10 | 211 |
| Cooked | 000 kg | 26 | 127 |
| Other[9] | | - | 14 |
| Total Wholesale Value | | | 3,941 |

TABLE 22 - CONT'D

| SPECIES | UNIT OF MEASURE | QUANTITY | VALUE[2] ($'000) |
|---|---|---|---|
| DOGFISH | | | |
| Landed | 000 kg | 3,071 | 698 |
| Processed: | | | |
| Fresh | 000 kg | 2,791 | 644 |
| Backs | 000 kg | 83 | 123 |
| Other Dogfish Products[10] | | - | 69 |
| Total Wholesale Value | | - | 836 |
| EULACHONS | | | |
| Landed | 000 kg | 11 | 12 |
| Processed: | | | |
| Other Products[11] | | - | 20 |
| Total Wholesale Value | | - | 20 |
| FLOUNDER | | | |
| Landed | 000 kg | 64 | 22 |
| Processed: | | | |
| Fresh or Frozen | 000 kg | 2 | 3 |
| Fillets, Fresh | 000 kg | 8 | 25 |
| Fillets, Frozen | 000 kg | 10 | 30 |
| Total Wholesale Value | | - | 58 |
| GREY COD | | | |
| Landed[12] | 000 kg | 4,551 | 2,102 |
| Processed: | | | |
| Fresh | 000 kg | 121 | 84 |
| Frozen | 000 kg | 50 | 83 |
| Fillets, Fresh | 000 kg | 876 | 2,646 |
| Fillets, Frozen | 000 kg | 422 | 1,416 |
| Other[13] | | - | 3,223 |
| Total Wholesale Value | | - | 7,452 |
| HAKE | | | |
| Landed | 000 kg | 3,070 | 347 |
| Processed: | | | |
| Fresh | 000 kg | 3,018 | 352 |
| Other[14] | 000 kg | - | 48 |
| Total Wholesale Value | | - | 400 |
| HALIBUT | | | |
| Landed (B.C. Ports) | 000 kg | 1,865 | 6,378 |
| Processed: | | | |
| Fresh | 000 kg | 424 | 1,781 |
| Frozen | 000 kg | 1,478 | 7,076 |
| Fillets, Frozen | 000 kg | 2 | 17 |
| Steaks, Frozen | 000 kg | 39 | 270 |
| Other[15] | | - | 124 |
| Total Wholesale Value | | - | 9,268 |

## TABLE 22 - CONT'D

| SPECIES | UNIT OF MEASURE | QUANTITY | VALUE[2] ($'000) |
|---|---|---|---|
| **HERRING** | | | |
| Landed[16] | 000 kg | 39,987 | 53,032 |
| Processed: | | | |
| Fresh | 000 kg | 54 | 19 |
| Bait; Fresh or Frozen | 000 kg | 692 | 1,838 |
| Frozen for Food | 000 kg | 566 | 418 |
| Body and Offal Meal | 000 kg | 4,662 | 3,110 |
| Roe[17] | 000 kg | 5,368 | 98,094 |
| Spawn on Kelp | 000 kg | 227 | 6,455 |
| Other[18] | | - | 1,116 |
| Total Wholesale Value | | - | 111,050 |
| **LING COD** | | | |
| Landed | 000 kg | 3,730 | 2,120 |
| Processed: | | | |
| Fresh | 000 kg | 306 | 439 |
| Frozen | 000 kg | 274 | 462 |
| Fillets, Fresh | 000 kg | 475 | 1,360 |
| Fillets, Frozen | 000 kg | 436 | 1,296 |
| Other[19] | | - | 257 |
| Total Wholesale Value | | - | 3,814 |
| **MUSSELS** | | | |
| Landed | 000 kg | n/a | n/a |
| Processed: | | | |
| In Shell | 000 kg | 1 | 4 |
| Total Wholesale Value | | - | 4 |
| **OCTOPUS** | | | |
| Landed | 000 kg | 30 | 63 |
| Processed: | | | |
| Fresh | 000 kg | 7 | 22 |
| Frozen | 000 kg | 10 | 38 |
| Bait | 000 kg | 11 | 37 |
| Total Wholesale Value | | - | 97 |
| **OYSTERS** | | | |
| Landed | 000 kg | 2,453 | 1,554 |
| Processed: | | | |
| In Shell | 000 kg | 13 | 12 |
| Half Shell | dozen | 132,384 | 332 |
| Meat, Fresh, 8 oz. | 000 kg | 45 | 318 |
| Meat, Fresh, 16 oz. | 000 kg | 8 | 51 |
| Meat, Fresh, 32 oz. | 000 kg | 138 | 794 |
| Other[20] | | - | 92 |
| Total Wholesale Value | | - | 1,599 |

TABLE 22 - CONT'D

| SPECIES | UNIT OF MEASURE | QUANTITY | VALUE[2] ($'000) |
|---|---|---|---|
| PACIFIC OCEAN PERCH | | | |
| Landed | 000 kg | 5,791 | 2,223 |
| Processed: | | | |
| Fresh | 000 kg | 154 | 91 |
| Frozen | 000 kg | 440 | 755 |
| Fillets, Fresh | 000 kg | 726 | 2,421 |
| Fillets, Frozen | 000 kg | 972 | 3,305 |
| Other | | - | 392 |
| Total Wholesale Value | | - | 6,964 |
| POLLOCK | | | |
| Landed | 000 kg | 888 | 207 |
| Processed: | | | |
| Fresh | 000 kg | 2 | 2 |
| Fillets, Fresh | 000 kg | 79 | 217 |
| Fillets, Frozen | 000 kg | 238 | 723 |
| Other[21] | | - | 1,430 |
| Total Wholesale Value | | - | 2,372 |
| PRAWNS | | | |
| Landed | 000 kg | 329 | 2,138 |
| Processed: | | | |
| Fresh | 000 kg | 128 | 840 |
| Frozen | 000 kg | 152 | 1,127 |
| Tails, Frozen, Cooked | 000 kg | 20 | 255 |
| Whole Frozen Cooked | 000 kg | 5 | 41 |
| Other[22] | | - | 7 |
| Total Wholesale Value | | - | 2,270 |
| RED SNAPPER | | | |
| Landed[23] | 000 kg | - | - |
| Processed: | | | |
| Fresh | 000 kg | 277 | 245 |
| Frozen | 000 kg | 31 | 53 |
| Fillets, Fresh | 000 kg | 351 | 1,052 |
| Fillets, Frozen | 000 kg | 192 | 567 |
| Other[24] | | - | 60 |
| Total Wholesale Value | | - | 1,977 |
| ROCKFISH | | | |
| Landed | 000 kg | 6,037 | 2,777 |
| Processed: | | | |
| Fresh | 000 kg | 159 | 303 |
| Frozen | 000 kg | 111 | 174 |
| Fillets, Fresh | 000 kg | 381 | 1,161 |
| Fillets, Frozen | 000 kg | 292 | 983 |
| Other[25] | | - | 266 |
| Total Wholesale Value | | - | 2,887 |

TABLE 22 - CONT'D

| SPECIES | UNIT OF MEASURE | QUANTITY | VALUE[2] ($'000) |
|---|---|---|---|
| SABLEFISH | | | |
| Landed[12] | 000 kg | 4,414 | 6,520 |
| Processed: | | | |
| Fresh | 000 kg | 31 | 82 |
| Frozen | 000 kg | 407 | 1,126 |
| Frozen Dressed, Japanese Cut | 000 kg | 2,209 | 5,373 |
| Frozen Dressed, Western Cut | 000 kg | 80 | 181 |
| Smoked, Dressed | 000 kg | 65 | 321 |
| Smoked Fillets | 000 kg | 67 | 324 |
| Other[26] | | - | 40 |
| Total Wholesale Value | | - | 7,447 |
| SALMON | | | |
| Landed[27] | 000 kg | 70,943 | 106,997 |
| Processed: | | | |
| Fresh Round | 000 kg | 264 | 313 |
| Fresh Dressed | 000 kg | 2,958 | 13,101 |
| Frozen Dressed | 000 kg | 17,139 | 79,729 |
| Frozen Fillets & Steaks | 000 kg | 199 | 1,144 |
| Mild Cured | 000 kg | 153 | 1,284 |
| Smoked | 000 kg | 575 | 6,880 |
| Canned[28] | 48 lb. case | 1,480,527 | 176,191 |
| Roe[29] | 000 kg | 861 | 3,186 |
| Other Specialty Products | 000 kg | - | 38 |
| Other[30] | | - | 2,423 |
| Total Wholesale Value | | - | 284,289 |
| SCALLOPS | | | |
| Landed | 000 kg | 6 | 24 |
| Processed: | | | |
| In shell, Fresh | 000 kg | 2 | 9 |
| Other[31] | | - | 14 |
| Total Wholesale Value | | - | 23 |
| SEA URCHINS | | | |
| Landed | 000 kg | 712 | 252 |
| Processed: | | | |
| Roe in trays | | 67 | 835 |
| Other[32] | | - | 100 |
| Total Wholesale Value | | - | 935 |

TABLE 22 - CONT'D

| SPECIES | UNIT OF MEASURE | QUANTITY | VALUE[2] ($'000) |
|---|---|---|---|
| **SHRIMP** | | | |
| Landed | 000 kg | 402 | 1,073 |
| Processed: | | | |
| Fresh | 000 kg | 82 | 321 |
| Frozen | 000 kg | 23 | 104 |
| Shrimp Meat, Fresh | 000 kg | 45 | 618 |
| Shrimp Meat, Frozen | 000 kg | 14 | 178 |
| Other[33] | | - | 87 |
| Total Wholesale Value | | - | 1,308 |
| **SKATE** | | | |
| Landed | 000 kg | 342 | 45 |
| Processed: | | | |
| Fresh | 000 kg | 10 | 21 |
| Frozen | 000 kg | 9 | 20 |
| Wings | 000 kg | 57 | 111 |
| Other[34] | 000 kg | - | 11 |
| Total Wholesale Value | | - | 163 |
| **SOLE** | | | |
| Dover Sole Landed[35] | 000 kg | - | - |
| Processed: | | | |
| Frozen | 000 kg | 27 | 58 |
| Fillets, Fresh | 000 kg | 20 | 102 |
| Fillets, Frozen | 000 kg | 7 | 34 |
| Total Wholesale Value | | - | 194 |
| English Sole Landed[35] | 000 kg | - | - |
| Processed: | | | |
| Fresh | 000 kg | 7 | 6 |
| Frozen | 000 kg | 7 | 10 |
| Fillets, Fresh | 000 kg | 47 | 232 |
| Fillets, Frozen | 000 kg | 15 | 68 |
| Other | 000 kg | - | 6 |
| Total Wholesale Value | | - | 322 |
| Petrale Sole Landed[35] | 000 kg | - | - |
| Processed: | | | |
| Fresh | 000 kg | 21 | 23 |
| Frozen | 000 kg | 32 | 90 |
| Fillets, Fresh | 000 kg | 24 | 151 |
| Fillets, Frozen | 000 kg | 23 | 121 |
| Total Wholesale Value | | - | 385 |

TABLE 22 - CONT'D

| SPECIES | UNIT OF MEASURE | QUANTITY | VALUE[2] ($'000) |
|---|---|---|---|
| Rock Sole Landed[35] | 000 kg | - | - |
| Processed: | | | |
| Frozen | 000 kg | 10 | 13 |
| Fillets, Fresh | 000 kg | 99 | 513 |
| Fillets, Frozen | 000 kg | 25 | 125 |
| Other[36] | 000 kg | - | 6 |
| Total Wholesale Value | | - | 657 |
| Other Sole, Landed | 000 kg | 2,724 | 1,673 |
| Processed: | | | |
| Fresh | 000 kg | 36 | 35 |
| Frozen | 000 kg | 36 | 60 |
| Fillets, Fresh | 000 kg | 116 | 579 |
| Fillets, Frozen | 000 kg | 272 | 1,478 |
| Other[37] | - | - | 383 |
| Total Wholesale Value | | - | 2,535 |
| SQUID | | | |
| Landed | 000 kg | 15 | 21 |
| Processed: | | | |
| Squid Products[38] | | - | 13 |
| Total Wholesale Value | | - | 13 |
| STURGEON | | | |
| Landed | 000 kg | 3 | 4 |
| Processed: | | | |
| Fresh | 000 kg | 2 | 7 |
| Other[39] | | - | 3 |
| Total Wholesale Value | | - | 10 |
| TUNA | | | |
| Landed (B.C. Ports) | 000 kg | 160 | 327 |
| Processed: | | | |
| Frozen | 000 kg | 150 | 429 |
| Other | 000 kg | - | 1 |
| Total Wholesale Value | | - | 430 |
| TURBOT | | | |
| Landed | 000 kg | 315 | 67 |
| Processed: | | | |
| Fillets, Fresh | 000 kg | 15 | 26 |
| Fillets, Frozen | 000 kg | 76 | 184 |
| Other[40] | | - | 914 |
| Total Wholesale Value | | - | 1,124 |
| MISCELLANEOUS FISH | | | |
| Landed[41] | 000 kg | 882 | 165 |
| Processed: | | | |
| Other Products[42] | | - | 2,768 |
| Total Wholesale Value | | - | 2,768 |

## TABLE 22 - CONT'D - FOOTNOTES

[1] Landings statistics are provided by the Department of Fisheries and Oceans in a preliminary form and are subject to major revision.
[2] Any discrepancy in value figures is due to rounding.
[3] Includes fresh meat and abalone in the shell
[4] Included in "other clams".
[5] Includes fresh and frozen whole butter clams, fresh or frozen meat, and canned and chowder products.
[6] Includes fresh or frozen meat and other products.
[7] Includes live horse clams and neck meat
[8] Includes fresh or frozen whole clams, fresh or frozen meat, bait and other products.
[9] Includes canned and other products.
[10] Includes frozen, flaps, fins and tails, and other dogfish products.
[11] Includes frozen and other eulachon products.
[12] Quantity reported in round weight.
[13] Includes blocks, roe and other grey cod products.
[14] Includes frozen and frozen hake fillets.
[15] Includes frozen fletches and other halibut products.
[16] Includes herring spawn on kelp.
[17] Includes mature and immature roe.
[18] Includes kippers and kippered snacks, pickled, carcasses for export, body and offal oil, fillets and other herring products.
[19] Includes frozen lingcod steaks, blocks, surimi and other products.
[20] Includes oyster meat 12 oz and 128 oz, canned and other products.
[21] Includes pollock frozen, blocks, surimi and other products.
[22] Includes prawn meat frozen cooked and other products.
[23] Included in rockfish.
[24] Includes blocks and other products.
[25] Includes blocks and other rockfish products.
[26] Includes other sablefish products.
[27] Includes salmon roe.
[28] Includes specialty packs.
[29] Includes "No. 1 Grade" and "other grades".
[30] Includes frozen round salmon, offal, offal meal, oil, heads, bait, milts and other products.
[31] Includes scallops in shell frozen, fresh and frozen meat, and other products
[32] Includes whole sea urchins and bulk roe.
[33] Includes canned shrimp and other products.
[34] Includes carcasses and other skate products.
[35] Included in "other sole".
[36] Includes fresh rock sole and other products
[37] Includes blocks and other products.
[38] Includes fresh squid and fresh and frozen bait.
[39] Includes frozen and smoked sturgeon.
[40] Includes frozen turbot, blocks and other products.
[41] Includes non food fish, crayfish, mussels, snails, sea cucumber, smelts, idiotfish and mackerel.
[42] Includes "other groundfish", "portions, sticks, and specialty" products, smelts, "other shellfish", fish meal n.e.s., fish oil n.e.s., solubles n.e.s., and kombu.

## III. LICENCING OF THE B.C. FISHING AND FISH PROCESSING SECTORS - 1983

The total number of personal commercial fishing licences issued by the Department of Fisheries and Oceans in 1983 declined by 11 percent, from 17,298 in 1982 to 15,439. 1983, however, was the second year in which a 5 year licence was issued. A total of 749 5 year licences, as well as 14,690 traditional 1 year licences, were issued compared to 1873 and 15,425 issued in 1982 respectively.

In general, the number of licences issued by the Department of Fisheries and Oceans for commercial fisheries remained relatively constant for the third year in a row. It should be noted that the numbers shown on the following tables are only a record of the licences issued in that calendar year. These figures do not reflect the licences which were not renewed by December 31 of that year, therefore the numbers will vary slightly from year to year.

In 1983 salmon and roe herring licences were designated by gear type rather than by Indian and Non-Indian as in past years. Further, a separate salmon category was named for the exclusive Northern Native Fishing Corporation (N) licences issued. In addition, an expanded special fishery (Z) licence was introduced by the Department of Fisheries and Oceans to cover a number of unlimited entry fisheries.

The number of fish processing plants licenced by the Ministry of Environment increased by 4 percent in 1983, from 205 in 1982 to 213. The numbers of specific category processing licences issued, remained relatively constant compared to last year, with the exceptions of salmon which rose by 35 percent and roe herring which dropped by 18 percent. The number of cold storage licences issued in 1983 totalled 98 compared to 93 in 1982. One marine plant processing licence was also issued.

The number of fish buying licences issued to persons and/or companies decreased for the second year in a row from 546 to 500, a decline of 8 percent. With regards to the actual number of fish buying decals issued, 320 were for salmon, 236 for roe herring, 110 for other finfish and 80 for invertebrates. A total of 347 fisherman's vending licences were also issued.

Finally, 133 oyster picking permits and 21 marine plant harvesting permits were issued by the Ministry of Environment.

TABLE 23 - THE NUMBER OF PERSONAL COMMERCIAL FISHING LICENCES ISSUED BY THE DEPARTMENT OF FISHERIES AND OCEANS: BY CITY 1981-1983[1]

| | 1981 | 1982 | | 1983 | |
|---|---|---|---|---|---|
| | | 1 Year | 5 Year | 1 Year | 5 Year |
| KAMLOOPS | 2 | 6 | | 7 | |
| NEW WESTMINSTER | 2,921 | 2,548 | 36 | 2,341 | 126 |
| NANAIMO | 3,414 | 3,226 | 240 | 3,279 | 99 |
| PORT ALBERNI | 1,255 | 1,418 | | 1,351 | |
| CAMPBELL RIVER | 2,330 | 2,143 | | 2,129 | |
| KITIMAT | 455 | 396 | | 391 | |
| PRINCE RUPERT | 1,784 | 1,424 | 369 | 1,349[2] | 73 |
| QUEEN CHARLOTTE CITY | 526 | 423 | | 282 | |
| VICTORIA | 1,713 | 1,704 | | 1,601 | |
| VANCOUVER | 2,997 | 2,086 | 1,228 | 1,915 | 451 |
| WHITEHORSE | 57 | 51 | | 45 | |
| TOTAL | 17,454 | 15,425 | 1,873 | 14,690 | 749 |

1 Information provided by the Licencing Section, Department of Fisheries and Oceans.
2 Preliminary.

TABLE 24 - THE NUMBER OF LICENCES ISSUED FOR COMMERCIAL FISHERIES BY THE DEPARTMENT OF FISHERIES AND OCEANS: BY FISHERY AND LICENCE CATEGORY 1981 - 1983[1]

| FISHERY | LICENCE CATEGORY | 1981 | 1982 | 1983 |
|---|---|---|---|---|
| Salmon | | | | |
| Non-Indian | A | 4,171 | 4,112 | 3,782 |
| Indian | AI | 377 | 358 | 550[2] (A seine) |
| Temporary | B | 192 | 168 | 155 |
| N.N.F C.[3] | N | - | - | 139 |
| Salmon Subtotal | | 4,740 | 4,638 | 4,626 |
| Roe Herring | | | | |
| Non-Indian | H | 1,101 | 1,111 | 1,325 (H Gillnet)[4] |
| Indian | HI | 462 | 460 | 252 (H Seine)[4] |
| Roe Herring Subtotal | | 1,563 | 1,571 | 1,577[5] |
| Halibut | L | 431 | 433 | 429 |
| Groundfish Trawl | T | 148 | 147 | 139 |
| Shrimp Trawl | S | 248 | 247 | 243 |
| Sablefish | K | 45 | 45 | 44 |
| Abalone | E | 26 | 26 | 26 |
| Selected Species | C | 1,119 | 1,072 | 1,010 |

1 Information provided by the Licencing Section, Department of Fisheries and Oceans.
2 Gear distinction for Salmon seine licences in 1983.
3 Northern Native Fishing Corporation exclusive licences.
4 Roe Herring licences differentiated by gear type for 1983.
5 Of the 1577 Roe Herring licences, 460 were HI.

TABLE 25 - THE NUMBER OF LICENCES ISSUED FOR COMMERCIAL FISHERIES BY THE DEPARTMENT OF FISHERIES AND OCEANS: SPECIAL FISHERIES (Z) - UNLIMITED ENTRY - 1983[1]

B. Unlimited Licences

| | | |
|---|---|---|
| Packing | D | 227 |
| Processor | P | 3 |

Special Fisheries - Fishing with a Vessel Z

| | |
|---|---|
| Clams | 1 |
| Weathervane Scallops | 18 |
| Red Sea Urchin | 64 |
| Sea Cucumber | 44 |
| Squid Species | 165 |
| Euphausiid | 7 |
| Copepod | 0 |
| Prawn | 568 |
| Pink or Spiny Scallop | 11 |
| Octopus | 131 |
| Anchovy | 54 |
| Surf and Pile Perch | 14 |

Special Fisheries - Fishing Without a Vessel Z

| | |
|---|---|
| Mussel | 19 |
| Welk | 0 |
| Winkles | 0 |
| Top Snail | 0 |
| Limpet | 0 |
| Goose Barnacle | 2 |
| Octopus | 20 |
| Smelt | 17 |
| Eulachon | 6 |

1 Information provided by the Licencing Section, Department of Fisheries and Oceans

TABLE 26 - THE NUMBER OF FISH PROCESSING, FISH BUYING AND FISHERMAN'S VENDING LICENCES ISSUED BY THE MINISTRY OF ENVIRONMENT: BY LICENCE TYPE - 1982 - 1983[1]

| | 1982 | 1983 |
|---|---|---|
| **Processing Licences** | | |
| Commercial Salmon Cannery | 18 | 18 |
| Sport Caught Salmon Cannery | 2 | 1[2] |
| Salmon | 100 | 135 |
| Roe Herring | 44 | 36 |
| Fin Fish | 79 | 79 |
| Invertebrates | 68 | 73 |
| Cold Storage: | | |
| a. over 80 $m^3$ | 60 | 61 |
| b. under 80 $m^3$ | 35 | 37 |
| Marine Plants | - | 1 |
| **Buyer Licence Decals Issued** | | |
| Salmon | 328 | 320 |
| Roe Herring | 285 | 236 |
| Fin Fish | 107 | 110 |
| Invertebrates | 86 | 80 |
| **Fisherman's Vending Licences** | 345 | 347 |
| **Oyster Picking Permits** | 76 [3] | 133 |
| **Marine Plant Harvesting Licences** | 26 | 21 |

1 Covers the fiscal year period from April 1 to March 31.
2 Three companies were licenced to can sport caught fish in 1983; two were already covered by commercial salmon cannery licences while the other was exclusively licenced as a sport caught cannery.
3 Revised.

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